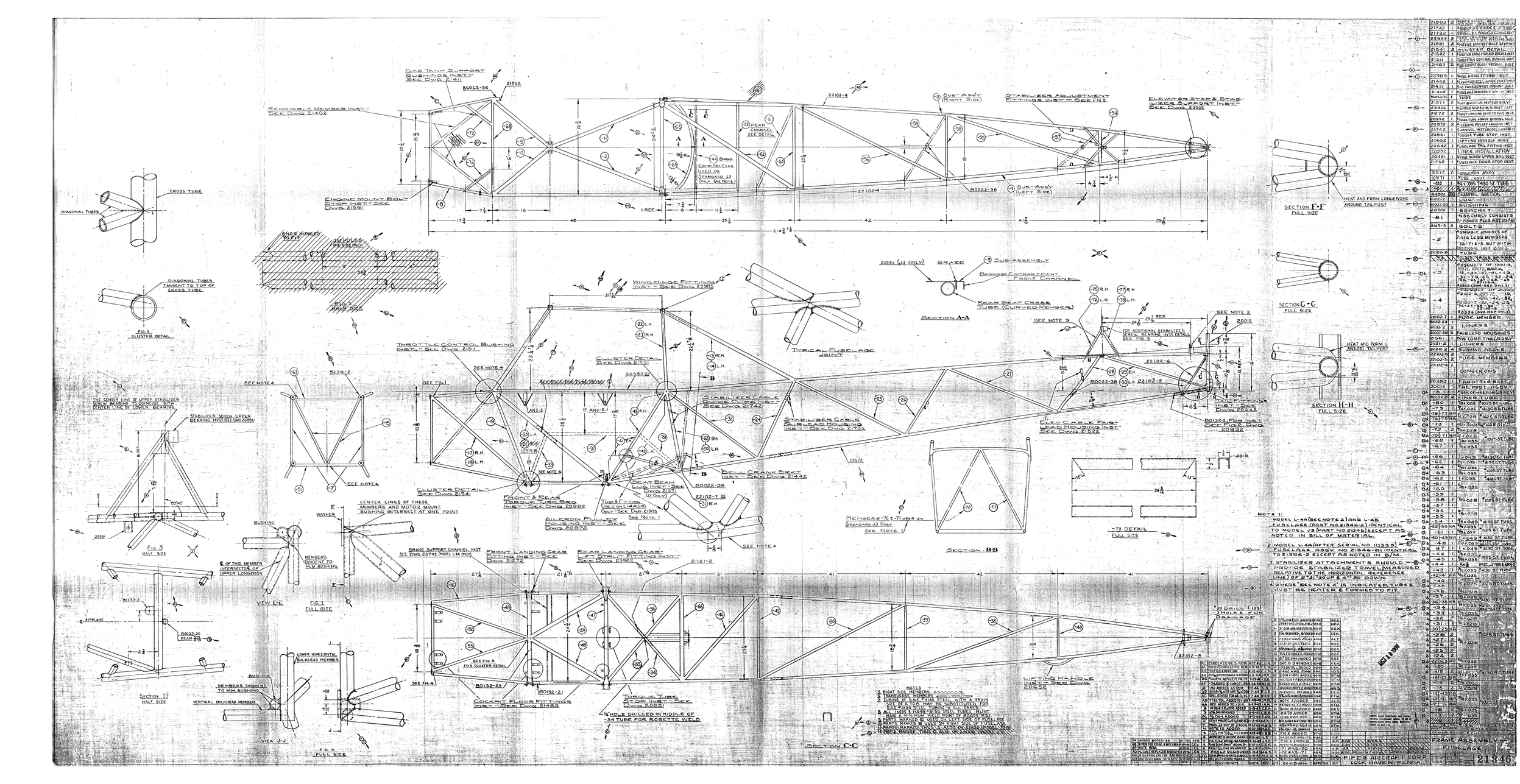

NOTE 1:
MODEL L-4A (SEE NOTE 2) AND L-4B FUSELAGE (PART NO. 21346-2) IDENTICAL TO MODEL J3 (PART NO. 21346) EXCEPT AS NOTED IN BILL OF MATERIAL.

2. MODEL L-4A (AFTER SERIAL NO. 10339) FUSELAGE ASSY. NO 21346-81 IDENTICAL TO 21346-2 EXCEPT AS NOTED IN B/M.

3. STABILIZER ATTACHMENTS SHOULD PROVIDE STABILIZER TRAVEL MEASURED RELATIVE TO THE HORIZONTAL REFERENCE LINE OF 2° 30' UP & 2° 30' DOWN.

4. WHERE "SEE NOTE 4" IS INDICATED, TUBES MUST BE HEATED & FORMED TO FIT.

	21903	2		SEAT ASS'Y (RIGHT SIDE)	
	21742	1		STRUT & ELEVATOR CONTROL BELL CRANK	
	21732	1		STRUT & RUDDER CONTROL BELL CRANK	
	23952	2		SEAT ASS'Y (LEFT SIDE)	
	21591	2		ENGINE MOUNT BOLT STOP INST	
	21541	2		ELEVATOR CABLE TURNBUCKLE INST	
	21532	1		ELEVATOR CABLE FAIRLEAD BRACKET INST	
	21511	1		THROTTLE CONTROL BUSHING INST	
	21483	2		FUSELAGE FLOOR FITTINGS INST	
	23983	1		WING HINGE FITTING INST	
	21442	1		ELEVATOR BELL CRANK BRACKET INST	
	21411	1		GAS TANK SUPPORT BUSHING INST	
	21402	1		REMOVABLE MEMBER INST	
	9666536	1		TUBE	
	21371	2		SEAT BEAM LUG INST (J3 ONLY)	
	23962	1		TURTLE STOP FITTING INST	
	21272	2		FRONT LANDING GEAR STRUT FITTING INST	
	20932	1		TORQUE TUBE LONGERON BEARING INST	
	20972	2		PULLEY HOUSING INST	
	23742	1		GUNNEL INST (MODEL L-4A ONLY)	
	20851	1		TORQUE TUBE STOP INST	
	20652	1		LIFTING HANDLE INST	
	20642	1		FUSELAGE TAIL FITTING INST	
	20332	1		LINER INSTALLATION	
	20491	1		STRAP SCREW UPPER BRG INST	
	21762	1		FUSELAGE DOOR STOP INST	
	10572	2		LONGERON ASSY	
	10571	2		TUBE ASSY	
-82		1		4130 ST TUBE	
-81		1		4130 ST TUBE	
84501		88		CHANNEL SECTION	
21172-2		1		LUG	
20272-20		2		BUSHING	
20591		1		BRACKET ASSEMBLY CONSISTS OF P1346 PLUS P1572	
AN3-5		2		BOLTS	
-2				ASSEMBLY CONSISTS OF P1346 LESS MEMBERS 70-71 E-5 BUT WITH ATTACHING INST 21252	
21202-6				TUBE	
-4				ASSEMBLY OF 21202-4, 10572 (2 REQ'D), 10571 (2 REQ'D) 21-74-85-32-24 21-44-82-34 80933 (ONE REQ'D ONLY)	
-4				ASSEMBLY OF 21202-4, 10572 - 19, 21-74-85-32-24 80933 (ONE REQ'D ONLY)	
-4				ASSEMBLY OF 21202-4, 10572 - 19, 21-74-85-32-24 80933 (ONE REQ'D ONLY)	
21202-7		1		FUSE. MEMBER	
20322-23		1		LINERS	
20132-2		2		LINERS	
20022-38		6		FAIRLEAD HOUSING'S	
21541		1		TURNBUCKLE ASSY	
21212		1		LINERS	
21212-4		2		BUSHING ASSYS.	
21202-6		2		FUSE. MEMBERS	
21202-5		2		FUSE. MEMBERS	
21202-4		2		LONGERONS	
20383		1		THROTTLE BRKT.	
20012		1		TAIL POST ASSY.	
-2		1		ASSY OF 4&5 (ONE REQ'D)	
80132-21		2		STEEL TUBE	
-80		1		21.028	.1025 ST. TUBE
-79		1		21.035	.1035 ST. TUBE
-78	-77	RH/LH		21.028	.1025 ST. TUBE
-76	-75	RH/LH		21.028	.1025 ST. TUBE
-73		1		21.028	.1025 ST. TUBE
-72		2		21.028	
-70	-71	RH/LH		21.028	.1025 ST. TUBE
-68		1		21.035	.1035 ST. TUBE
-67		1		21.035	
-66		1		1.049	4130 ST. TUBE
-65		1		1.035	.1035 ST. TUBE
-64		1		1.035	
-63		1		1.035	.1035 ST. TUBE
-62		1		1.035	.1035 ST. TUBE
-61		1		1.035	
-60		1		1.035	
-59		1			
-58		1		21.028	.1025 ST. TUBE
-57		1			
-56		1		21.028	
-55		1		21.028	
-54		1		1.049	4130 ST. TUBE
-53		1		1.035	.1035 ST. TUBE
-51		1		1.049	4130 ST. TUBE
50-49		RH/LH		1.049	4130 ST. TUBE
-48		1		1.049	4130 ST. TUBE
-47		1		1.049	4130 ST. TUBE
-46		1		1.035	.1035 ST. TUBE
-45		1		1.035	.1035 ST. TUBE
-44		1		20 g	.058" WALL 4130 ST. TUBE
-43		1		1.035	.1035 ST. TUBE
42-41		RH/LH		1.035	
-40		1		21.028	.1025 ST. TUBE
-39		1		21.028	
-38		1		21.028	
36-35		RH/LH		1.035	.1035 ST. TUBE
-34		1		1.049	4130 ST. TUBE
-33		1		1.035	.1035 ST. TUBE
-32		1		21.028	
-31		1		21.028	
30-29		RH/LH		21.028	.1025 ST. TUBE
-28		2			
-27		2		21.028	.1025 ST. TUBE
-26		2			
-25		2			
-24		2			
23-22		RH/LH		1.035	
-20		1		1.035	.1035 ST. TUBE
-19		1		1.049	4130 ST. TUBE
18-17		RH/LH		1.035	.1035 ST. TUBE
-16		2		1.035	
-15		2		1.035	
14-13		RH/LH			
-12		1		1.035	.1035 ST. TUBE
-11		1			
-10		1			
-9		1			
-8		1			
-7		1			
-6		1			
-5		1			
-4		1			
-3		1			
-2		1			
-1		1			

AR	AN960 & 965-416	F-16	HEX	A	3/16 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-516	G	HEX	B	1/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-616	H	HEX	C	5/16 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-716	J	HEX	D	3/8 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-816	K	HEX	E	7/16 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-916	L	HEX	F	1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-1016	M	HEX	G	5/8 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-1216	N	HEX	H	3/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-1416	P	HEX	J	7/8 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-1616	Q	HEX	K	1 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-1816	R	HEX	L	1 1/8 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-2016	S	HEX	M	1 1/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-2416	T	HEX	N	1 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-2816	U	HEX	P	1 3/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-3216	V	HEX	Q	2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-3616	W	HEX	R	2 1/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-4016	X	HEX	S	2 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-4816	Y	HEX	T	3 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-5616	Z	HEX	U	3 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-6416	AA	HEX	V	4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-7216	AB	HEX	W	4 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-8016	AC	HEX	X	5 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-8816	AD	HEX	Y	5 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-9616	AE	HEX	Z	6 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-10016	AF	HEX	AA	6 1/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-10816	AG	HEX	AB	6 3/4 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-11216	AH	HEX	AC	7 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-12016	AJ	HEX	AD	7 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-12816	AK	HEX	AE	8 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-13616	AL	HEX	AF	8 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-14416	AM	HEX	AG	9 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-15216	AN	HEX	AH	9 1/2 SQUARE STEEL SPRING BRAKE
AR	AN960 & 965-16016	AP	HEX	AJ	10 SQUARE STEEL SPRING BRAKE

AR	AN960 & 965S-316	A	HEX	AK	3/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-416	B	HEX	AL	1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-516	C	HEX	AM	5/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-616	D	HEX	AN	3/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-716	E	HEX	AP	7/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-816	F	HEX	AQ	1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1016	G	HEX	AR	5/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1216	H	HEX	AS	3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1416	J	HEX	AT	7/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1616	K	HEX	AU	1 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1816	L	HEX	AV	1 1/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2016	M	HEX	AW	1 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2416	N	HEX	AX	1 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2816	P	HEX	AY	1 3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-3216	Q	HEX	AZ	2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-3616	R	HEX	BA	2 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-4016	S	HEX	BB	2 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-4816	T	HEX	BC	3 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-5616	U	HEX	BD	3 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-6416	V	HEX	BE	4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-7216	W	HEX	BF	4 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-8016	X	HEX	BG	5 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-8816	Y	HEX	BH	5 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-9616	Z	HEX	BJ	6 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-10016	AA	HEX	BK	6 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-10816	AB	HEX	BL	6 3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-11216	AC	HEX	BM	7 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-12016	AD	HEX	BN	7 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-12816	AE	HEX	BP	8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-13616	AF	HEX	BQ	8 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-14416	AG	HEX	BR	9 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-15216	AH	HEX	BS	9 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-16016	AJ	HEX	BT	10 SQUARE STAINLESS STEEL SPRING BRAKE

AR	AN960 & 965S-316	A	HEX	AK	3/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-416	B	HEX	AL	1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-516	C	HEX	AM	5/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-616	D	HEX	AN	3/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-716	E	HEX	AP	7/16 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-816	F	HEX	AQ	1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1016	G	HEX	AR	5/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1216	H	HEX	AS	3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1416	J	HEX	AT	7/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1616	K	HEX	AU	1 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-1816	L	HEX	AV	1 1/8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2016	M	HEX	AW	1 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2416	N	HEX	AX	1 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-2816	P	HEX	AY	1 3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-3216	Q	HEX	AZ	2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-3616	R	HEX	BA	2 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-4016	S	HEX	BB	2 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-4816	T	HEX	BC	3 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-5616	U	HEX	BD	3 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-6416	V	HEX	BE	4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-7216	W	HEX	BF	4 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-8016	X	HEX	BG	5 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-8816	Y	HEX	BH	5 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-9616	Z	HEX	BJ	6 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-10016	AA	HEX	BK	6 1/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-10816	AB	HEX	BL	6 3/4 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-11216	AC	HEX	BM	7 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-12016	AD	HEX	BN	7 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-12816	AE	HEX	BP	8 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-13616	AF	HEX	BQ	8 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-14416	AG	HEX	BR	9 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-15216	AH	HEX	BS	9 1/2 SQUARE STAINLESS STEEL SPRING BRAKE
AR	AN960 & 965S-16016	AJ	HEX	BT	10 SQUARE STAINLESS STEEL SPRING BRAKE

NOTES
RIGHT SIDE MEMBERS = ( )
TRANSVERSE MEMBERS = ( )
FOR STEEL TUBE, GRAIN DIRECTION MUST BE PARALLEL TO LONGITUDINAL AXIS OF TUBE.
ALL UNUSED HOLES TO BE FILLED WITH AN4 BOLTS.
ALL 4130 & 1025 STEEL TUBES MUST BE HEAT TREATED TO HAVE A MINIMUM YIELD POINT OF 80,000 PSI.
PARTS MARKED ⊗ USED ON LEFT SIDE OF FUSELAGE
PARTS MARKED ⊗ USED ON RIGHT SIDE OF FUSELAGE
PARTS SHOWN IN DWG. & NOT IN PARTS LIST ARE STANDARD PARTS
PARTS MARKED "USED ON L-4A ONLY" ARE NOT USED ON L-4B